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COMMON APSE INTERFACE SET (CAIS)

U.S. DOD-STD-1838 and DOD-STD-1838A

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Patricia ("Tricia") Oberndorf
Naval Ocean Systems Center (NOSC)
Code 423
San Diego, California 92152-5000
(619)225-6682

TRICIA@NOSC-TECR.ARPA

DOD-STD-1838 ("CAIS 1")

OBJECTIVE:

A specification for a set of Ada® packages which together form a set of common interfaces for Ada Programming Support Environments. Designed to promote the source-level portability of Ada programs, particularly Ada software development tools.

- SCOPE: Those services, traditionally provided by an operating system, that affect tool transportability.
- STATUS: Approved as a U.S. military standard on 9 October 1986
- For copies, contact:

 Naval Publications and Forms Center
 5801 Tabor Ave.
 Philadelphia, Pennsylvania 19120 U.S.A.
 (215)697-3321
- "Fast reaction team" in place; send comments and questions to calscom@ajpo.sei.cmu.edu

DOD-STD-1838 (cont.)

GUIDES:

- . Wide acceptance in the Ada community
- . Transportability
- Support for APSE tool writers
- Uniformity/cohesiveness of design
- Flexibility
- Database management
- Implementability
- Compiler independence
- Evolution from AIE and ALS
- Base for interoperability

DOD-STD-1838 (cont.)

- Ada orientation
- Performance
- Distribution and security
- Standards utilization

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DOD-STD-1838 (cont.)

CUTLINE (610 pp.)

- 1. Scope
- . 2. Referenced Dogyments
- 3. Definitions
- 4. General Requirements
- 5. Detailed Requirements
- 5.1 General Node Management (includes Access Control)
 - 5.2 CAIS Process Nodes
- 5.3 CAIS Input and Output
- 5.4 CAIS List Management
- 5.5 Package CAIS_STANDARD 5.6 Package CAIS_CALENDAR
 - 5.7 CAIS Pragmatics
- 6. Notes
- Appendices:
- A. Predefined Relations, Attributes and Attribute Values
- B. CAIS Specification
- C. Cross Reference of CAIS Procedures and Functions
- D. Syntax Summary
- E. CAIS Access Control Management
- F. Implementation Dependencies

- Index

DOD-STD-1838A ("CAIS 2" or "CAIS-A")

OBJECTIVE:

- Fulfill the Requirements and Design Criteria (RAC) in a manner that is upwardly compatible with DOD-STD-1838
- Conflicts between these are expected; these are resolved with the help of the KAPSE interface Team (KIT)

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SCOPE:

- 1838 + typing in the node model I/O extension explicit distribution interoperability transactions triggering
- including status return information predefined types for operation of 1838 tools

DOD-STD-1838A (cont.)

- STATUS:Under contract with Soffech/Compusec (12/85 12/88)
- SCHEDULE:
- Review meeting (5y inv/tation) 21 23 October 1987
- Public review (by mail; no meeting) in February 1988 ı
- Submission of Proposed DOD-STD-1838A for formal review by 30 **April 1988**
- Final DOD-STD-1838A approved 31 December 1988
- Prototype underway, to be delivered approx. 30 June 1988 and updated to meet the final standard

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DOD-STD-1838A (cont.)

- Will cover most of RAC:
- simplistically for identification methods
- no paper tape
- probably no I/O-handler-to-device-driver
- protocols
- KIT recommendation to defer window management and graphics i

KIT RESOLUTION ON WINDOW MANAGEMENT AND GRAPHICS:

- WHEREAS:
- These areas are immature and changing rapidly
- Neither area has a clear "winner" (either vendor or public) i
- The Ada bindings are weak or non-existent

I

- To devise our own is time-consuming and not effective l
- WE RECOMMEND THAT THE AJPO:
- Defer window & graphics interfaces for CAIS-A
- Assure robustness of CAIS-A primitive I/O extensibility l
- Track current efforts in these areas
- Get involved & even provide leadership in these areas I
- Budget for development & eventual insertion in CAIS ı

- OBJECTIVE: Express requirements and design criteria for CAIS-A
- STATUS:
- Completed 4 October 1986
- Submitted to Defense Technical Information Center (DTIC) and National Technical information Service (NTIS) as NOSC Technical Document (TD) 1121
- For copies: DTIC (must be registered with them) (703)274-7633

NTIS (703)487-4650 Department of Commerce 5285 Port Royal Road Springfield, VA 22161 U.S.A.

- Ask for #ADA 184 488
- Rationale to be released at SWG on APSEs meeting in November